

A function is rule that assigns one output for every input.

Consider these rules to determine if it is a function:

There is “food” rule F that assigns fruit to a food that can be made from it.

This is NOT a function because apples could make apple pie or applesauce.

$F(\text{apple}) = \text{apple pie}$ or $F(\text{apple}) = \text{applesauce}$.

However, a “Juice” rule J is a function because there is only a specific juice that can be made from each fruit.

$J(\text{apple}) = \text{apple juice}$ There is an “ice cream” rule I that tells what kinds of ice cream people like.

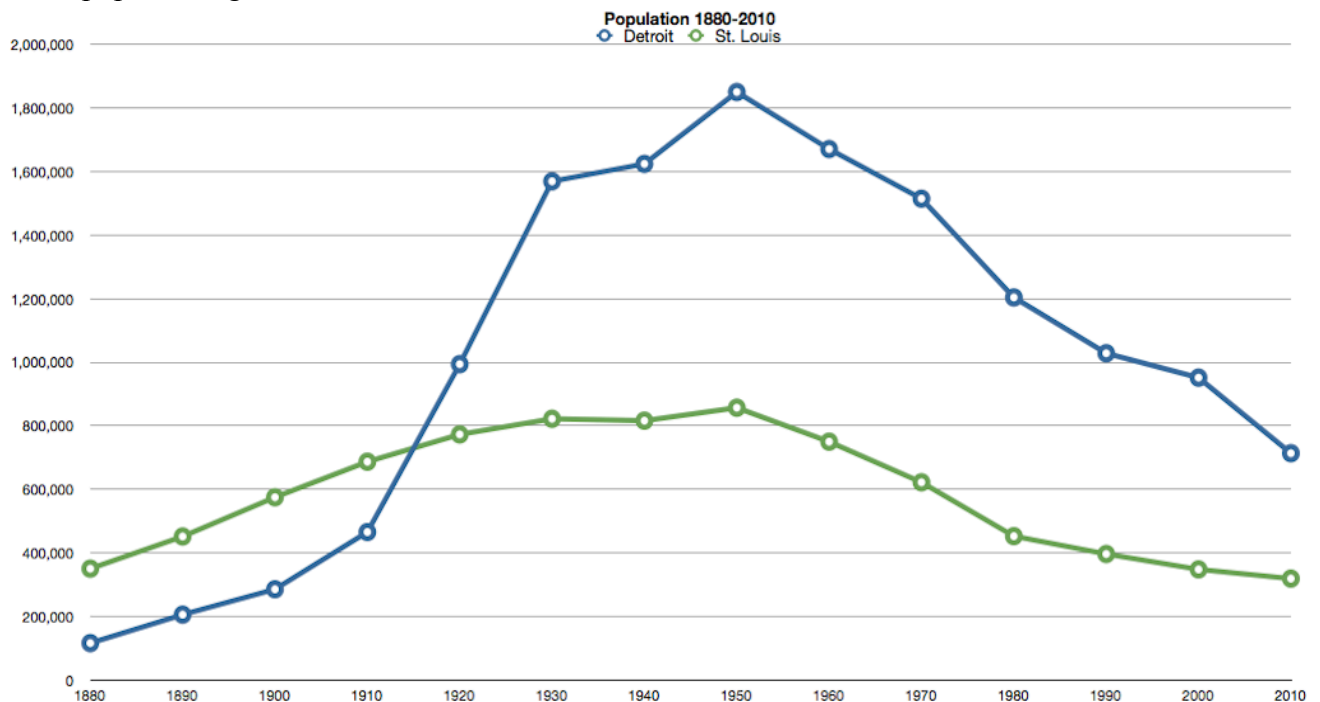
This is NOT a function because people can like more than one flavor.

$I(\text{Ashley}) = \text{chocolate}$ or $I(\text{Ashley}) = \text{coffee}$

However, if asked for your “favorite ice cream flavor” rule this is a function because there can only be one response.

This is a function because for every input (year) only one output is generated (population)

Objectives: You will create a graph of human population growth. You will identify factors that affect population growth.



Graphing populations:

Year: Will be represented on the x-axis because it's the independent variable.

Population: Will be represented on the y-axis because it's the dependent variable.

Title: Your graph must have a title that represents the information displayed in your graph.

After graphing all the points on your graph please connect the points so you can analyze the graph.

Questions to consider: What factors influence human population growth trends most strongly? How does population growth or decline impact the environment?

"American Indian Holocaust and Survival" by Russell Thornton

Native American population in Oklahoma from 1900-1980

